Title of Instructional Materials: CPM: Algebra 2 Connections

Grade Level: Algebra II

Summary of CPM: Algebra 2 Connections

Overall Rating:	Important Mathematical Ideas: Weak (1-2) ☐ Moderate (2-3) ☐ Strong (3-4)
Summary / Justification / Evidence: Well developed and covered most standards effectively and thoroughly	Summary / Justification / Evidence: Good use of applications and investigations throughout the text. Good use of interesting themes
Skills and Procedures: Moderate (2-3) Strong (3-4)	Mathematical Relationships: ☐ Weak (1-2) ☐ Moderate (2-3) ☐ Strong (3-4)
Summary / Justification / Evidence: Variety of skill levels including synthesisizing and analyzing. Effective use of collaborative activities	Summary / Justification / Evidence: Tied the content to other fields of study and connected to prior knowledge. Students have to write and explain for situations inside and outside of the mathematics context.

1. Make sense of problems and persevere in solving them.		
Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze		
givens, constraints, relationships, and goals. They make conjectures about the	e form and meaning of the solution and plan a solution pathway rather than	
simply jumping into a solution attempt. They consider analogous problems, a	and try special cases and simpler forms of the original problem in order to	
gain insight into its solution. They monitor and evaluate their progress and cl	hange course if necessary. Older students might, depending on the context o	
the problem, transform algebraic expressions or change the viewing window		
Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of		
important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures t		
help conceptualize and solve a problem. Mathematically proficient students of		
continually ask themselves, "Does this make sense?" They can understand the	e approaches of others to solving complex problems and identify	
correspondences between different approaches.		
Indicate the chapter(s), section(s), and/or page(s) reviewed:		
indicate the chapter (3), section(3), and/or page(3) reviewed.	Portions of the domain, cluster, and standard that are missing	
mulcate the enapter(3), section(3), and/or page(3) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):	
mulcate the enapter(3), section(3), and/or page(3) reviewed.	· · · · · · · · · · · · · · · · · · ·	
mulcate the enapter(3), section(3), and/or page(3) reviewed.	· · · · · · · · · · · · · · · · · · ·	
indicate the enapter(3), section(3), and/or page(3) reviewed.	i i	
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Summary / Justification / Evidence:	or not well developed in the instructional materials (if any):	
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2. Reason abstractly and quantitatively.			
Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to			
bear on problems involving quantitative relationships: the ability to <i>decontextualize</i> —to abstract a given situation and represent it symbolically and			
manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize,			
to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits o			
creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to			
compute them; and knowing and flexibly using different properties of operat	ions and objects.		
Indicate the chapter(s), section(s), and/or page(s) reviewed:	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):		
Summary / Justification / Evidence:	Overall Rating:		

3. Construct viable arguments and critique the reasoning of other	rs.	
Mathematically proficient students understand and use stated assumptions,	definitions, and previously established results in constructing arguments.	
They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by		
breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the		
arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose.		
Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that		
which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such a		
objects, drawings, diagrams, and actions. Such arguments can make sense an		
grades. Later, students learn to determine domains to which an argument ap		
whether they make sense, and ask useful questions to clarify or improve the	arguments.	
Indicate the chapter(s), section(s), and/or page(s) reviewed: Portions of the domain, cluster, and standard that are missing		
	or not well developed in the instructional materials (if any):	
Summary / Justification / Evidence:		
, , , , , , , , , , , , , , , , , , , ,	Overall Rating : $\Box 1 \Box 2 \Box 3 \Box 4$	

4. Model with mathematics.			
Mathematically proficient students can apply the mathematics they know to	solve problems arising in everyday life, society, and the workplace. In early		
grades, this might be as simple as writing an addition equation to describe a	situation. In middle grades, a student might apply proportional reasoning to		
plan a school event or analyze a problem in the community. By high school, a	student might use geometry to solve a design problem or use a function to		
describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making			
assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important			
quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can			
analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and			
reflect on whether the results make sense, possibly improving the model if it	has not served its purpose.		
Indicate the chapter(s), section(s), and/or page(s) reviewed:	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):		
Summary / Justification / Evidence:	Overall Rating:		

5. Use appropriate tools strategically.		
Mathematically proficient students consider the available tools when solving	g amathematical problem. These tools might inclu	de pencil and paper,
concretemodels, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software.		
Proficient students aresufficiently familiar with tools appropriate for their grade or course to make sounddecisions about when each of these tools migh		
be helpful, recognizing both theinsight to be gained and their limitations. For example, mathematically proficienthigh school students analyze graphs of		
functions and solutions generated using agraphing calculator. They detect possible errors by strategically using estimationand other mathematical		
knowledge. When making mathematical models, they knowthat technology can enable them to visualize the results of varying assumptions, explore		
consequences, and compare predictions with data. Mathematicallyproficient students at various grade levels are able to identify relevant		
externalmathematical resources, such as digital content located on a website	e, and use themto pose or solve problems. They ar	e able to use technological
tools to explore anddeepen their understanding of concepts.		
Indicate the chapter(s), section(s), and/or page(s) reviewed: Portions of the domain, cluster, and standard that are miss		
	or not well developed in the instructiona	il materials (if any):
Summary / Justification / Evidence:		
	Overall Rating:	2

6. Attend to precision.			
Mathematically proficient students try to communicate precisely to others. T	hey try to use clear definitions in discussion with others and in their own		
reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about			
specifying units of measure, and labeling axes to clarify the correspondence	with quantities in a problem. They calculate accurately and efficiently,		
express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated			
explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.			
Indicate the chapter(s), section(s), and/or page(s) reviewed: Portions of the domain, cluster, and standard that are missing			
	or not well developed in the instructional materials (if any):		
Summary / Justification / Evidence:			
building / Justineution / Evidence:	Overall Rating: $\Box 1 \Box 2 \Box 3 \Box 4$		

7. Look for and make use of structure.			
Mathematically proficient students look closely to discern a pattern or struct	ure.Young students, for examp	ple, might notice that three and seven more is	
the sameamount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see			
$^{\circ}$ — 8 equals thewell-remembered 7 $^{\circ}$ — 5 + 7 $^{\circ}$ — 3, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older			
students can see the 14 as 2 °— 7 andthe 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of			
drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can seecomplicated things, such as			
some algebraic expressions, as single objects or asbeing composed of several objects. For example, they can see $5 - 3(x - y)2$ as 5minus a positive numbe			
times a square and use that to realize that its value cannotbe more than 5 for	any real numbers x and y.		
Indicate the chapter(s), section(s), and/or page(s) reviewed: Portions of the domain, cluster, and standard that are miss			
		the instructional materials (if any):	
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Summary / Justification / Evidence:			
Summary / Justification / Evidence.	Overall Rating:	$\Box_1 \Box_2 \Box_3 \boxtimes_4$	
	Over all Nathing.		

8. Look for and express regularity in repeated reasoning.			
Mathematically proficient students notice if calculations are repeated, and lookboth for general methods and for shortcuts. Upper elementary students			
mightnotice when dividing 25 by 11 that they are repeating the same calcula			
paying attention to the calculation of slope as they repeatedly check whether			
might abstract the equation $(y-2)/(x-1)=3$. Noticing the regularity in the way terms cancel when expanding $(x-1)(x+1)$, $(x-1)(x^2+x+1)$, and $(x-1)(x+1)$			
$1)(x^3 + x^2 + x + 1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient			
students maintain oversight of the process, whileattending to the details. The			
Indicate the chapter(s), section(s), and/or page(s) reviewed:	Portions of the domain, cluster, and standard that are missing		
	or not well developed in the instructional materials (if any):		
Summary / Justification / Evidence:			
	Overall Rating : $\Box 1 \Box 2 \Box 3 \boxtimes 4$		
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Reviewed By:

Documenting Alignment to the Standards for Mathematical Practice

Title of Instructional Materials:

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They make presentations. How is the sawn -

1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	

2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By:	
Title of Instructional Materials:	CPM

3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Overall Rating

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Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Reviewed By:	
Title of Instructional Materials:	

4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

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Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	QM

5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Overall Rating

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Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	

6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

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Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Overall Rating



Reviewed By:		
Title of Instructional Materials:	CPF	

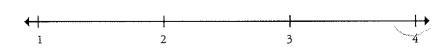
7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.

Overall Rating

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	CPM

8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation (y-2)/(x-1)=3. Noticing the regularity in the way terms cancel when expanding (x-1)(x+1), $(x-1)(x^2+x+1)$, and $(x-1)(x^3+x^2+x+1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

p91, 2-109 look for stratigues

Indicate the chapter(s), section(s), or page(s) reviewed.

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	1 P M

ALGEBRA II — NUMBER AND QUANTITY (N)

The Complex Number System (N-CN)

Perform arithmetic operations with complex numbers.	Summary and documental met. Cite examples from the			ister, and sta	andard are
N-CN.1 Know there is a complex number i such that $i^2 = -1$, and every complex number has the form $a + bi$ with a and b real.	Important Mathematical Ideas	3 { 	2	3	1
9,2.1: Complex numbers were explained that sis used that info to investigate more properties of the complex number	Skills and Procedures	1	2		1
36. Alex complex number	Mathematical Relationships	1	2	3	1
	Summary / Justification / I	Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cl developed in the instruction			e missing or	not well
	Overall Rating	 	1 2	3	(1) (4)

The Charles A. Dana Center

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Reviewed By:	
Title of Instructional Materials:	

ALGEBRA II -- NUMBER AND QUANTITY (N)

The Complex Number System (N-CN)

Perform arithmetic operations with complex numbers.	Summary and documentation of how the domain, cluster, and stand met. Cite examples from the materials.	dard are
N-CN.2 Use the relation $I^2 = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers. Note: I^2 as highest power of I .	Important Mathematical Ideas 1 2 3	4
9,2,2	Skills and Procedures 1 2 3 Sub Extraction p (30)	4
	Mathematical Relationships 1 2 3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence	
	Portions of the domain, cluster, and standard that are missing or no developed in the instructional materials (if any):	ot well
	Overall Rating 1 1 2 3	4

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Title of Instructional Materials:	CPM		

ALGEBRA II — NUMBER AND QUANTITY (N)

The Complex Number System (N-CN)

Use complex numbers in polynomial identities and equations.	Summary and documentation met. Cite examples from the			uster, and stan	dard are
N-CN.7 Solve quadratic equations with real coefficients that have complex solutions. Note: Polynomials with real coefficients.	Important Mathematical Ideas	1	2	3	1
9.21 to 9.23	Skills and Procedures	1	2	1 3	1) 4
	not many problem				
	Mathematical Relationships	1	2	3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction	ster, and st	andard that a	re missing or n	ot well
	Overall Rating		2	3	

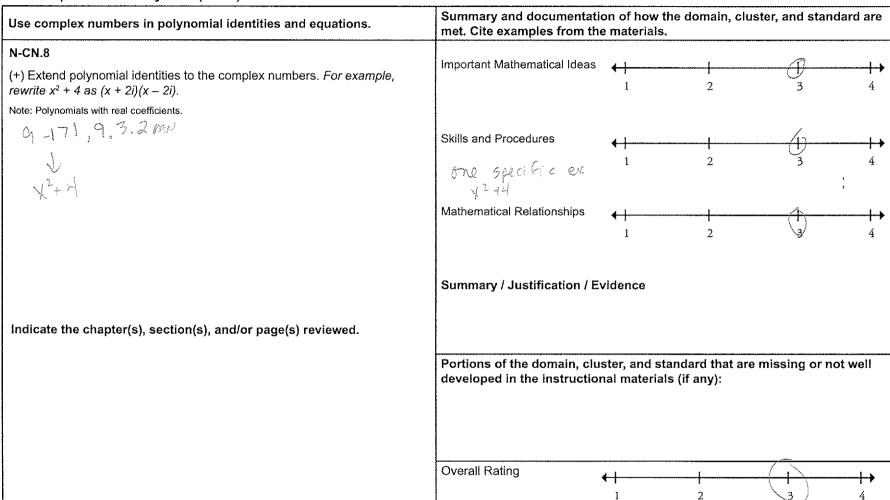
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Reviewed By:	

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ALGEBRA II — NUMBER AND QUANTITY (N)

The Complex Number System (N-CN)



Reviewed By:	
Title of Instructional Materials:	

ALGEBRA II -- NUMBER AND QUANTITY (N)

The Complex Number System (N-CN)

Use complex numbers in polynomial identities and equations.	Summary and documentat met. Cite examples from the			uster, and stanc	lard are
N-CN.9 (+) Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.	Important Mathematical Ideas		2	1	4
Note: Polynomials with real coefficients. 9 - 1 7 / POT 11-68	Skills and Procedures	1	2	3	4
1-49	Mathematical Relationships	(2	- (1 3)	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / I	Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cl developed in the instruction	uster, and s onal materi	standard that a als (if any):	re missing or n	ot well
	Overall Rating	(2		1→ 4

Reviewed By:	
Title of Instructional Materials:	

Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.			
A-SSE.1a				
1. Interpret expressions that represent a quantity in terms of its context.*	Important Mathematical Ideas			
 Interpret parts of an expression, such as terms, factors, and coefficients. 	1 2 3			
Note: Polynomial and rational.	Skills and Procedures			
CI. I AN				
*	Mathematical Relationships			
	Mathematical Relationships			
	1 2 3			
Indicate the chanter(s) coetion(s) and to a very (s) and our d	Summary / Justification / Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.				
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):			
	Overall Rating			
	1 2 3 4			

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Reviewed By:	

ALGEBRA II — ALGEBRA (A)

Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.			
A-SSE.1b Interpret expressions that represent a quantity in terms of its context.* b. Interpret complicated expressions by viewing one or more of their	Important Mathematical Ideas	1	2	1 1
parts as a single entity. For example, interpret P(1+r) ⁿ as the product of P and a factor not depending on P. Note: Polynomial and rational.	Skills and Procedures	1	2	3 (4)
2.1.7mN 2.1.7mN 12.5.1mN :A=P(1+ =)"6	Mathematical Relationships	1	2	3 4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	vidence		
indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clu developed in the instruction			e missing or not well
	Overall Rating	(2	1 3 (1)

Reviewed By:	

ALGEBRA II — ALGEBRA (A)

Seeing Structure in Expressions (A-SSE)

Interpret the structure of expressions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				indard are
A-SSE.2 Use the structure of an expression to identify ways to rewrite it. For example, see $x^4 - y^4$ as $(x^2)^2 - (y^2)^2$, thus recognizing it as a difference of squares that	Important Mathematical Ideas	1	2	3	1
can be factored as $(x^2 - y^2)(x^2 + y^2)$. Note: Polynomial and rational. 2.2.3 Down through discussion 4.1045 through	Skills and Procedures	1	2	3	
	Mathematical Relationships	1	2	3	•
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clu developed in the instruction			e missing or	not well
	Overall Rating	 	2	3	

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Reviewed By:	
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ALGEBRA II — ALGEBRA (A)

Seeing Structure in Expressions (A-SSE)

Write expressions in equivalent forms to solve problems.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.		
A-SSE.4	Important Mathematical Ideas		
Derive the formula for the sum of a finite geometric series (when the common ratio is not 1), and use the formula to solve problems. For example, calculate mortgage payments.*	Investigation is develop a formula		
12.3.1	Skills and Procedures		
	Mathematical Relationships 1 2 3		
	Summary / Justification / Evidence		
Indicate the chapter(s), section(s), and/or page(s) reviewed.			
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):		
	Overall Rating 1 2 3		

22

Reviewed By:	
Title of Instructional Materials:	

Arithmetic with Polynomials and Rational Expressions (A-APR)

Perform arithmetic operations on polynomials.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.			dard are	
A-APR.1	Important Mathematical Ideas		1	i	1.5
Understand that polynomials form a system analogous to the integers, namely, they are closed under the operations of addition, subtraction, and multiplication; add, subtract, and multiply polynomials.	Important Mathematical Ideas	1	2	3	4
Note: Beyond quadratic.	Skills and Procedures		2	3	
2-152) mult polyrom do	Mathematical Relationships		2	- 3	;
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instructio			missing or n	ot well
	e 105VM 15 115	4 dise	.554 D		
	Overall Rating	(1)	2	3	

Reviewed By:	

ALGEBRA II — ALGEBRA (A)

Understand the relationship between zeros and factors of polynomials.	Summary and documentation of how the domain, cluster, and stan met. Cite examples from the materials.			ndard are	
A-APR.2 Know and apply the Remainder Theorem: For a polynomial $p(x)$ and a number a , the remainder on division by $x - a$ is $p(a)$, so $p(a) = 0$ if and only if $(x - a)$ is a factor of $p(x)$.	Important Mathematical Ideas	1		3	
9,3,0 Factor Thm 15 stold hat not	Skills and Procedures	1		3	
Factor Thm is stated but not the Remainder Thm	Mathematical Relationships	1		3	4
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clu developed in the instructio	ster, and nal mater	standard that are	missing or r	not well
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Arithmetic with Polynomials and Rational Expressions (A-APR)

Summary and documentation of how the domain, cluster, and standard are Understand the relationship between zeros and factors of polynomials. met. Cite examples from the materials. A-APR.3 Important Mathematical Ideas Identify zeros of polynomials when suitable factorizations are available, and use the zeros to construct a rough graph of the function defined by the polynomial. 9.1.1-9.1.3 Skills and Procedures Mathematical Relationships Summary / Justification / Evidence Indicate the chapter(s), section(s), and/or page(s) reviewed. Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating 2 1

Reviewed By:

Title of Instructional Materials: CPM

ALGEBRA II - ALGEBRA (A)

Arithmetic with Polynomials and Rational Expressions (A-APR)

Use polynomial identities to solve problems.	Summary and documentation of how the domain, cluster, and stand met. Cite examples from the materials.			dard are	
A-APR.4	Important Mathematical Ideas		1		
Prove polynomial identities and use them to describe numerical relationships. For example, the polynomial identity $(x^2 + y^2)^2 = (x^2 - y^2)^2 + (2xy)^2$ can be used to generate Pythagorean triples.		1	2	3	4
2-119 Determining it 2 different 222 expression and equipment	Skills and Procedures	1	2	<u></u>	4
7-83 - which 5 19 10 (1814?	Mathematical Relationships	(3	1
12.2.1 - post by Martine	Summary / Justification / Ev	, vidence	_	J	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	, , , , , , , , , , , , , , , , , , ,				
	Portions of the domain, cludeveloped in the instruction			e missing or n	ot well

Reviewed By:

Title of Instructional Materials:

ALGEBRA II — ALGEBRA (A)

Arithmetic with Polynomials and Rational Expressions (A-APR)

Use polynomial identities to solve problems.	Summary and documentation of how the domain, cluster, and standar met. Cite examples from the materials.			ndard are	
A-APR.5	Important Mathematical Ideas	. 1			
(+) Know and apply the Binomial Theorem for the expansion of $(x + y)^n$ in powers of x and y for a positive integer n , where x and y are any numbers, with coefficients determined for example by Pascal's Triangle.	Important Mathematical Ideas	1	2	3	4
12,4.	Skills and Procedures	←- 1	2	1	
12.4,2					4 5
	Mathematical Relationships	1	2	3	+
The Binomial Theorem can be proved by mathematical induction or by a combinatorial argument.	Summary / Justification / E	Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			e missing or	not well
	Overall Rating		ž		

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Title of Instructional Materials:	CP M

Arithmetic with Polynomials and Rational Expressions (A-APR)

Rewrite rational expressions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
A-APR.6 Rewrite simple rational expressions in different forms; write $a(x)/b(x)$ in the form $q(x) + r(x)/b(x)$, where $a(x)$, $b(x)$, $q(x)$, and $r(x)$ are polynomials with the degree of $r(x)$ less than the degree of $b(x)$, using inspection, long division, or, for the more complicated examples, a computer algebra system. Note: Linear and quadratic denominators.	Important Mathematical Ideas 1 2 3 5 6 Carn (1/5) 1 2 3 Skills and Procedures 1 2 3 4 Mathematical Relationships 1 2 3
Is taught Stanged Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating 1 2 3 4

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Arithmetic with Polynomials and Rational Expressions (A-APR)

Rewrite rational expressions.

A-APR.7

(+) Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication, and division by a nonzero rational expression; add, subtract, multiply, and divide rational expressions.

Note: Linear and quadratic denominators.

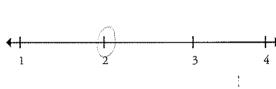
2-89:Add Simple rational Expressions /4 products) 3-113: +,-, x,+ simple rational expressions (+ problems)
5-67: + by Cartering (2 problems) 6-65 11 11 11 11 (2 problem) 10-53 +, -, x, + and was evo (4 problem)

Indicate the chapter(s), section(s), and/or page(s) reviewed.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas CONCEPT NOT

Skills and Procedures



Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

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Overall Rating

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Title of Instructional Materials:	

Creating Equations (A-CED)

Create equations that describe numbers or relationships.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.		
A-CED.1 Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear and quadratic functions, and simple rational and exponential functions.*	Important Mathematical Ideas	3 4	
Note: Equations using all available types of expressions, including simple root functions. 2-49: halar model 2-66: linear 3-43: linear 4-69: 505 of 98 poblem	Skills and Procedures 1 Mathematical Relationships 1	3 4	
らってうことできない。 つっしらこ ロ Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Evidence		
8-18: Linear Leadfoot hilly drives 80 mp*	Portions of the domain, cluster, and standeveloped in the instructional materials (

Reviewed By:	

ALGEBRA II — ALGEBRA (A)

Creating Equations (A-CED)

Create equations that describe numbers or relationships.	Summary and documentation of how the domain, cluster, and standard armet. Cite examples from the materials.
A-CED.2 Create equations in two or more variables to represent relationships between quantities; graph equations on coordinate axes with labels and scales.* Note: Equations using all available types of expressions, including simple root functions.	Important Mathematical Ideas 1 2 3 4 Investigation
5.1.1: Solving all basic types of 18 -5.2.4: Looking at graphs & understanding what into you can get from them	Skills and Procedures 1
7.1.1 to 7.1.5: 3 dime as ion Systems	Mathematical Relationships 1 2 3 4
	Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well
	developed in the instructional materials (if any):
	Overall Rating 1 2 3 4

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Title of Instructional Materials:

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ALGEBRA II — ALGEBRA (A)

Creating Equations (A-CED)

Create equations that describe numbers or relationships.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
A-CED.3 Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or non-viable options in a modeling context. For example, represent inequalities describing	Important Mathematical Ideas 1 2 3 4
nutritional and cost constraints on combinations of different foods.* Note: Equations using all available types of expressions, including simple root functions. 5, 2, 2 : Sys #(Eq. = Sneg	Skills and Procedures 1 2 3 1 2 3 1 2 3
5, 2, 3	Mathematical Relationships 1 2 3 4
	Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
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Title of Instructional Materials: ______ CPM

ALGEBRA II — ALGEBRA (A)

Creating Equations (A-CED)

Create equations that describe numbers or relationships.

A-CED.4

Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations. For example, rearrange Ohm's law V = IR to highlight resistance R.*

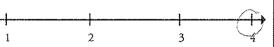
Note: Equations using all available types of expressions, including simple root functions.

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5-84: Rewrite to solve for y to enter on
a G.C. (4 poolse)

Indicate the chapter(s), section(s), and/or page(s) reviewed.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



Skills and Procedures



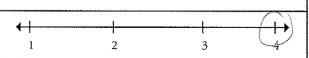
Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Overall Rating



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Title of Instructional Materials:	<u>CPM</u>

ALGEBRA II — ALGEBRA (A)

Reasoning with Equations and Inequalities (A-REI)

Understand solving equations as a process of reasoning and explain the reasoning.	Summary and documentation met. Cite examples from the			ster, and sta	ndard are
A-REI.2	Important Mathematical Ideas	4	1	ı	\triangle
Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.	important wasternation stood	1	2	3	4
Note: Simple radical and rational.					
2.2.3 rational	Skills and Procedures	4.1	1		
5.1.1-5.1.2 i radical extremos ad	Stand drig 1 1000ddrigo	1	2	3	4
7-40 scalical					;
7-53: cadical	Mathematical Relationships	41			
7-76: cadical	·	1	2	3	4
maka tradical					
7-180 radical	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
7-207 radical	Portions of the domain, cludedeveloped in the instruction			missing or	not well
7-176: rational + radical					
	Overall Rating		2	3	

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Title of Instructional Materials:	<u> </u>

ALGEBRA II — ALGEBRA (A)

Reasoning with Equations and Inequalities (A-REI)

Represent and solve equations and inequalities graphically.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
A-REI.11 Explain why the <i>x</i> -coordinates of the points where the graphs of the equations $y = f(x)$ and $y = g(x)$ intersect are the solutions of the equation $f(x) = g(x)$; find the solutions approximately, e.g., using technology to graph the functions, make tables of values, or find successive approximations. Include cases where $f(x)$ and/or $g(x)$ are linear, polynomial, rational, absolute value, exponential, and logarithmic functions.*	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3 4
Note: Combine polynomial, rational, radical, absolute value, and exponential functions. (5-25 expositional) (519 - Absolute value) (5-26 polynomial) (5-16 cade al) (5,13: \interest Absolute Value) (5,13: \interest Absolute Value)	Mathematical Relationships 1 2 3 4 Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating 1 2 3 4

Title of Instructional Materials:

CPm.

ALGEBRA II — FUNCTIONS (F)

Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.

F-IF.4

For a function that models a relationship between two quantities, interpret key features of graphs and tables in terms of the quantities, and sketch graphs showing key features given a verbal description of the relationship. Key features include: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; end behavior; and periodicity.*

Note: Include rational, square root and cube root; emphasize selection of appropriate models.

1.1.2 (1-60, cub < 0, R, ind) 1.2.2 (1-60, cub < 0, R, ind) 1.2.4 (-123 i guad O, R, aux/min, sym) 1.1.3 guad 4-3(0 4-37 1.2.1 cguad (4-78) 1.2.3 (6-89 eye) (6-117 log)

4.1.1: polynomical Indicate the chapter(s), section(s), and/or page(s) reviewed.

6-125 28 root

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



Skills and Procedures



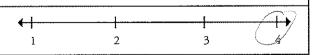
Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

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ALGEBRA II — FUNCTIONS (F)

Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.

F-IF.5

Relate the domain of a function to its graph and, where applicable, to the quantitative relationship it describes. For example, if the function h(n) gives the number of person-hours it takes to assemble n engines in a factory, then the positive integers would be an appropriate domain for the function.*

Note: Emphasize selection of appropriate models.

Indicate the chapter(s), section(s), and/or page(s) reviewed.

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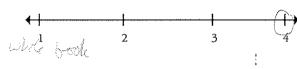
Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



Throughout the whole frood

Skills and Procedures



Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

Title of Instructional Materials:

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ALGEBRA II --- FUNCTIONS (F)

Interpreting Functions (F-IF)

Interpret functions that arise in applications in terms of the context.

F-IF.6

Calculate and interpret the average rate of change of a function (presented symbolically or as a table) over a specified interval. Estimate the rate of change from a graph.*

Note: Emphasize selection of appropriate models.

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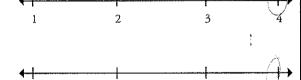
Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

tables & graphs

Important Mathematical Ideas

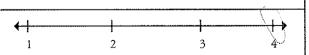
Skills and Procedures

Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):



Title of Instructional Materials:

PM

ALGEBRA II - FUNCTIONS (F)

Interpreting Functions (F-IF)

Analyze functions using different representations.

F-IF.7b

- Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.*
 - b. Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.

Note: Focus on using key features to guide selection of appropriate type of model function.

Indicate the chapter(s), section(s), and/or page(s) reviewed.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.







Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):



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Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentati met. Cite examples from th			ster, and star	ndard are
 F-IF.7c Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.* 	Important Mathematical Ideas	1	2	3	<u></u>
c. Graph polynomial functions, identifying zeros when suitable factorizations are available, and showing end behavior.	Skills and Procedures	(]			
Note: Focus on using key features to guide selection of appropriate type of model function. 9,1,3; 5 testory graphs 9,3,3; 9-13,4; 6-14,4; 10-15 Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships Summary / Justification / E	t l l l l l l l l l l l l l l l l l l l	2	3	-
	Portions of the domain, cludeveloped in the instruction	nal materia ತಿಳಿಗಳು	nls (if any):	462	not well
	Overall Rating	1	2	3	

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Title of Instructional Materials:

ALGEBRA II - FUNCTIONS (F)

Interpreting Functions (F-IF)

Analyze functions using different representations.

F-IF.7e

- 7. Graph functions expressed symbolically and show key features of the graph, by hand in simple cases and using technology for more complicated cases.*
 - e. Graph exponential and logarithmic functions, showing intercepts and end behavior, and trigonometric functions, showing period, midline, and amplitude.

Note: Focus on using key features to guide selection of appropriate type of model function.

31.1:exp grape 3-28 4,2,1: gual 4-52 14-56,4-65 4.2.2 vertex (h,K) 6.2,3:6-89 - exponentia 6.2.4 4.94 ,6-117 105

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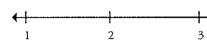
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Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



Skills and Procedures





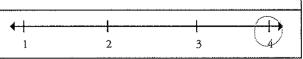
Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

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Title of Instructional Materials:

ALGEBRA II --- FUNCTIONS (F)

Interpreting Functions (F-IF)

Analyze functions using different representations.

F-IF.8a

- 8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.
 - a. Use the process of factoring and completing the square in a quadratic function to show zeros, extreme values, and symmetry of the graph, and interpret these in terms of a context.

Note: Focus on using key features to guide selection of appropriate type of model function.

1.14 MN 4.12 verter , shills 9004: 4-135 complet to 4-37 45 4-40 - graphing gas of 58

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4.3.1 conjust the so

Indicate the chapter(s), section(s), and/or page(s) reviewed.

7-83 - complete the 5% 7-116 - complete 13 38 7-175 - put in vertex Corn a graph Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



Skills and Procedures

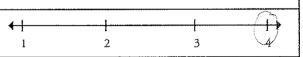


Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):



Title of Instructional Materials:

Interpreting Functions (F-IF)

Analyze functions using different representations.

F-IF.8b

- 8. Write a function defined by an expression in different but equivalent forms to reveal and explain different properties of the function.
 - b. Use the properties of exponents to interpret expressions for exponential functions. For example, identify percent rate of change in functions such as $y = (1.02)^t$, $y = (0.97)^t$, $y = (1.01)^{12t}$, $y = (1.22)^{\nu 10}$, and classify them as representing exponential growth or decay.

Note: Focus on using key features to guide selection of appropriate type of model function.

2.1.6 2.1.7 mg 2-93 3.1.2-2.16

Indicate the chapter(s), section(s), and/or page(s) reviewed.

3.1.4 - exp growfy
3.1.4 - exp decay

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas



Skills and Procedures

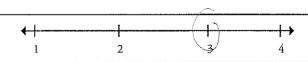


Mathematical Relationships



Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):



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Title of Instructional Materials:	CPM

Interpreting Functions (F-IF)

Analyze functions using different representations.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
F-IF.9 Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a graph of one quadratic function and an algebraic expression for another, say which has the larger maximum.	Important Mathematical Ideas 1 2 3
Note: Focus on using key features to guide selection of appropriate type of model function. 1.1. 4: Given 2 eg how many warp can you a great and a look at relations expressed a Greatly company warp and a look at relations expressed a Greatly company warp and a look at relations expressed a Greatly company and a look at 1.1.8 find a look at 1.1.00 at 2.100 at 2	Skills and Procedures 1 2 3 4
2.1.8 Find a rate Cut relatives expressed differently 3.1.7 est Co. 11. 3.1.6:3-72 write a content that Gis a data sel	Mathematical Relationships 1 2 3 4
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Title of Instructional Materials:	CPM

Building Functions (F-BF)

Build a function that models a relationship between two quantities.		Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.			ndard are
F-BF.1b					
Write a function that describes a relationship between two quantities.*	Important Mathematical Ideas				- + + + + + + + + + + + + + + + + + + +
b. Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.	Skills and Procedures	1 { 	2	3 (Î)	4
Note: Include all types of functions studied.		1	2	3	4
7,2.3: Girbing exp Functions					:
7. 2. 4 h Who Killed Dr. Badhasa adding a constitution	Mathematical Relationships	1	2	3	
adamenta de la composición del composición de la composición de la composición del composición de la composición del composición de la composición del com					
	Summary / Justification / E	ividence			
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Title of Instructional Materials:	o V M

Build new functions from existing functions.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.			ndard are	
F-BF.3 Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, k $f(x)$, $f(kx)$, and	Important Mathematical Ideas	 	2		
f(x + k) for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. Include recognizing even and odd functions from their graphs and algebraic expressions for them.	Skills and Procedures	·			
Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.		1	2	3	4
4,1,2;5's after equations to make ships or stretche	2				,
4.1.7.4-35 - graph would rolling a toll	Mathematical Relationships	< 		3	
4,2,1-4,24		1	2.	J	1
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4-91: write 23 for give propos x2+22	Portions of the domain, cludeveloped in the instruction	onal materia	ls (if any):	e missing or	not well
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ALGEBRA II — FUNCTIONS (F)

Building Functions (F-BF)

Build new functions from existing functions.

F-BF.4a

- 4. Find inverse functions.
 - a. Solve an equation of the form f(x) = c for a simple function f that has an inverse and write an expression for the inverse. For example, $f(x) = 2 x^3$ or f(x) = (x+1)/(x-1) for $x \ne 1$.

Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.

6,1.1-6.1.3

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1272: 6-39 99 root

Indicate the chapter(s), section(s), and/or page(s) reviewed.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

Important Mathematical Ideas

1 2 3

Skills and Procedures

1 2 3 4

Mathematical Relationships

1 2 3 4

Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

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Title of Instructional Materials:

ALGEBRA II — FUNCTIONS (F)

Linear, Quadratic, and Exponential Models (F-LE)

Construct and compare linear, quadratic, and exponential models and solve problems.	Summary and documentation met. Cite examples from the		ne domain, clu	ster, and stan	dard are
F-LE.4	Important Mathematical Ideas		1	1	
For exponential models, express as a logarithm the solution to $ab^{a} = d$ where a , c , and d are numbers and the base b is 2, 10, or e ; evaluate the logarithm using technology.*	Emportant Mathematical Ideas	1	2	3	4
Note: Logarithms as solutions for exponentials.	OLUM AND DATE OF THE PROPERTY			Δ.	
7,2,1: 7-93 solve exp functions	Skills and Procedures	1	2	3	4
7,23:7-1336					i ;
7.24:7-139.7:40	Mathematical Relationships	1	2	3	4
7- 2 23) 12.5.2 12-204 12-206 -269 Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	vidence			
	Portions of the domain, clu developed in the instruction			e missing or n	ot well
	Overall Rating		1		
		1	2 .	3/	4

Reviewed By:	
Title of Instructional Materials:	

Trigonometric Functions (F-TF)

Extend the domain of trigonometric functions using the unit circle.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
F-TF.1 Understand radian measure of an angle as the length of the arc on the unit circle subtended by the angle. 8.1.5	Important Mathematical Ideas 1 2 3 4 Skills and Procedures 1 2 3
	Mathematical Relationships 1 2 3 Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating

Reviewed By:		
Title of Instructional Materials:	CD W	

Trigonometric Functions (F-TF)

Extend the domain of trigonometric functions using the unit circle.	Summary and documentation met. Cite examples from the			ster, and stan	dard are
F-TF.2 Explain how the unit circle in the coordinate plane enables the extension of trigonometric functions to all real numbers, interpreted as radian measures of angles traversed counterclockwise around the unit circle.	Important Mathematical Ideas	1	2	3	
8.1.6: Building the sur lightle	Skills and Procedures	1	2	3	
Sine + cosine					i i
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence			
	Portions of the domain, cludeveloped in the instruction			missing or n	ot well
	Overall Rating	1	2	3	4

Reviewed By:	

Title of Instructional Materials:

ALGEBRA II — FUNCTIONS (F)

Trigonometric Functions (F-TF)

Model periodic phenomena with trigonometric functions.	Summary and documentation met. Cite examples from the			uster, and stan	idard are
F-TF.5					
Choose trigonometric functions to model periodic phenomena with specified	Important Mathematical Ideas	←	2	3	
amplitude, frequency, and midline.*	Conf feel walk	1	L	9	-3
Bilit : Pennium & my next	problem.			/	
	Skills and Procedures	+		(1)	++
81/12		1	2	`3 [°]	4
	A di Control di Contro			par .	i
8-119 Seriem Riginary	Mathematical Relationships	 	2	3	 4
8-124 5000 9-000					
8-156 (2004)	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, clu developed in the instruction			re missing or r	not well
•	Overall Rating	4-1	<u> </u>		
		1	2	3	4

Title of Instructional Materials:

cpm_

ALGEBRA II -- FUNCTIONS (F)

Trigonometric Functions (F-TF)

Prove and apply trigonometric identities.	Summary and documentati met. Cite examples from the	on of how t e materials	the domain, clus	ter, and stand	dard are
F-TF.8 Prove the Pythagorean identity $\sin 2(\theta) + \cos 2(\theta) = 1$ and use it to find $\sin(\theta)$, $\cos(\theta)$, or $\tan(\theta)$ given $\sin(\theta)$, $\cos(\theta)$, or $\tan(\theta)$ and the quadrant of the angle.	Important Mathematical Ideas	1	2	(3)	4
13-94 discovering is	Skills and Procedures	1		3	4
13-100 remarks pathogens beard word	Mathematical Relationships	1		3	
Let a & cots O	Summary / Justification / E	ividence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction	uster, and s onal materia	standard that are als (if any):	missing or n	ot well
	(650 (4640				
	Overall Rating	1		3	4

Reviewed By:	 	

Interpreting Categorical and Quantitative Data (S-ID)

Summarize, represent, and interpret data on a single count or measurement variable.	Summary and documentation of how the domain, cluster, and standamet. Cite examples from the materials.						d are
S-ID.4							
Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.	Important Mathematical Ideas	1	2	3	1		
SPR 1 5, 2, 3 Grandon & World Ersta burrows	Skills and Procedures	1	2	3			
5.3.1 Industry the grand very all				:			
5 3.2 59 use a bargraph & G.C.	Mathematical Relationships	(2	 3			
to Object answers							
	Summary / Justification / Ev	vidence					
Indicate the chapter(s), section(s), and/or page(s) reviewed.							
	Portions of the domain, cluded developed in the instruction			missing or not v	vell		
	Overall Rating				<u></u>		
		1	2	3	4		

Reviewed By:	
Title of Instructional Materials:	- CPM

Making Inferences and Justifying Conclusions (S-IC)

Understand and evaluate random processes underlying statistical experiments.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
S-IC.1 Understand statistics as a process for making inferences about population parameters based on a random sample from that population.	Important Mathematical Ideas 1 2 3 Skills and Procedures 1 2 3
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships 1 2 3 Summary / Justification / Evidence
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Overall Rating 1 2 3

Reviewed By:	
Title of Instructional Materials:	

Making Inferences and Justifying Conclusions (S-IC)

Understand and evaluate random processes underlying statistical experiments.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				andard are
S-IC.2 Decide if a specified model is consistent with results from a given datagenerating process, e.g., using simulation. For example, a model says a	Important Mathematical Ideas	(2	3	
spinning coin falls heads up with probability 0.5. Would a result of 5 tails in a row cause you to question the model?.	Skills and Procedures	(2		
8:12 thou may in a street, but a	Mathematical Relationships	 	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clus developed in the instruction			missing or	not well
	Overall Rating	1	2 .	3	

Reviewed By:	<u> </u>	
Title of Instructional Materials:	CPM	

Making Inferences and Justifying Conclusions (S-IC)

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.			ndard are	
S-IC.3 Recognize the purposes of and differences among sample surveys, experiments, and observational studies; explain how randomization relates to each.	Important Mathematical Ideas	1	2	3	
588 G/1 3	Skills and Procedures	1	2	3	4
6.2.3 - god noble	Mathematical Relationships	1	2	 3	
·	Summary / Justification / E	Evidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
	Portions of the domain, cludeveloped in the instruction			missing or	not well
	Overall Rating	1	2	3	4

Title of Instructional Materials:

Important Mathematical Ideas

rlm

ALGEBRA II — STATISTICS AND PROBABILITY (S)

Making Inferences and Justifying Conclusions (S-IC)

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

S-IC.4

Use data from a sample survey to estimate a population mean or proportion; develop a margin of error through the use of simulation models for random sampling.

SPR 2/14

8.13 marga of error restaudy population

81/14 Which site Sample

8.27 Thomas and a decision

Indicate the chapter(s), section(s), and/or page(s) reviewed.

T Prov

Skills and Procedures

8-12

Mathematical Relationships

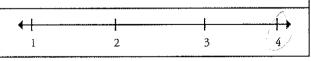


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2.

Summary / Justification / Evidence

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	CPM

Making Inferences and Justifying Conclusions (S-IC)

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	Summary and documentation of how the domain, cluster, and standard met. Cite examples from the materials.				ndard are
S-IC.5	Important Mathematical Ideas	4 1	f	1	En.
Use data from a randomized experiment to compare two treatments; use simulations to decide if differences between parameters are significant.	important wathernatical ideas	1	2	3	Ţ,
58R 8,0,0	Skills and Procedures	()	2	 3	
8,2,3	Mathematical Relationships	(; -{1
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E	vidence			
indicate the chapter(s), section(s), and/or page(s) reviewed.	Portions of the domain, clu developed in the instructio			missing or	not well
	Overall Rating	———			—
		1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

Making Inferences and Justifying Conclusions (S-IC)

Make inferences and justify conclusions from sample surveys, experiments, and observational studies.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.
S-IC.6	Samuel Mathematical Ideas (7)
Evaluate reports based on data.	Important Mathematical Ideas 1 2 3 4
500.61,2 6-19	
1 0	Skills and Procedures 2 3 4
6,2,2	
2,23	Mathematical Relationships
	2 3 4
	Summary / Justification / Evidence
Indicate the chapter(s), section(s), and/or page(s) reviewed.	
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):
	looking and expents?
	Overall Rating
	1 2 3 4

Reviewed By:		
Title of Instructional Materials:	c P M	

Using Probability to Make Decisions (S-MD)

Use probability to evaluate outcomes of decisions.	Summary and documentation met. Cite examples from the			uster, and sta	ndard are
S-MD.6 (+) Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator). Note: Include more complex situations.	Important Mathematical Ideas	1	2	 3	
10,1.1: 10-1 Rock Paper Scishors	Skills and Procedures	 	2	3	:
	Mathematical Relationships	(2	3	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ev	vidence	÷		
	Portions of the domain, cluded developed in the instruction			re missing or	not well
	Overall Rating	+ - 	1 2	3	4

Reviewed By:	
Title of Instructional Materials:	CPM

Using Probability to Make Decisions (S-MD)

Use probability to evaluate outcomes of decisions	Summary and documentation met. Cite examples from the			ster, and sta	ndard are
S-MD.7				6.	
(+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).	Important Mathematical Ideas	1	2	3	7
Note: Include more complex situations.					
60 60 4 : Pick A Door"	Skills and Procedures	1	2	3	— <u>(</u>)→
		-	_		•
51R 9 J.6	Mathematical Relationships	1	2	3	
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
-	Portions of the domain, clus developed in the instruction			missing or	not well
	Overall Rating	1	2	3	

Reviewed By:	
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Title of Instructional Materials: CPM Algaba 2 Connectors

Documenting Alignment to the Standards for Mathematical Practice

1. Make sense of problems and persevere in solving them.

Mathematically proficient students start by explaining to themselves the meaning of a problem and looking for entry points to its solution. They analyze givens, constraints, relationships, and goals. They make conjectures about the form and meaning of the solution and plan a solution pathway rather than simply jumping into a solution attempt. They consider analogous problems, and try special cases and simpler forms of the original problem in order to gain insight into its solution. They monitor and evaluate their progress and change course if necessary. Older students might, depending on the context of the problem, transform algebraic expressions or change the viewing window on their graphing calculator to get the information they need. Mathematically proficient students can explain correspondences between equations, verbal descriptions, tables, and graphs or draw diagrams of important features and relationships, graph data, and search for regularity or trends. Younger students might rely on using concrete objects or pictures to help conceptualize and solve a problem. Mathematically proficient students check their answers to problems using a different method, and they continually ask themselves, "Does this make sense?" They can understand the approaches of others to solving complex problems and identify correspondences between different approaches.

Overall Rating

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch. 4,5,6,9,11

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

The guided investigations and "Looking Deepe" really do provide procedural thereing and persevence row true ly

Reviewed By:	
Title of Instructional Materials	

2. Reason abstractly and quantitatively.

Mathematically proficient students make sense of quantities and their relationships in problem situations. They bring two complementary abilities to bear on problems involving quantitative relationships: the ability to decontextualize—to abstract a given situation and represent it symbolically and manipulate the representing symbols as if they have a life of their own, without necessarily attending to their referents—and the ability to contextualize, to pause as needed during the manipulation process in order to probe into the referents for the symbols involved. Quantitative reasoning entails habits of creating a coherent representation of the problem at hand; considering the units involved; attending to the meaning of quantities, not just how to compute them; and knowing and flexibly using different properties of operations and objects.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch. 4, 5, 6, 9, 11

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Students analyze the mathematical idea, then look for pothers and clevelop strategres. Next they apply their findings to make abstract generalizations



Reviewed By:	
Title of Instructional Materials:	

3. Construct viable arguments and critique the reasoning of others.

Mathematically proficient students understand and use stated assumptions, definitions, and previously established results in constructing arguments. They make conjectures and build a logical progression of statements to explore the truth of their conjectures. They are able to analyze situations by breaking them into cases, and can recognize and use counterexamples. They justify their conclusions, communicate them to others, and respond to the arguments of others. They reason inductively about data, making plausible arguments that take into account the context from which the data arose. Mathematically proficient students are also able to compare the effectiveness of two plausible arguments, distinguish correct logic or reasoning from that which is flawed, and—if there is a flaw in an argument—explain what it is. Elementary students can construct arguments using concrete referents such as objects, drawings, diagrams, and actions. Such arguments can make sense and be correct, even though they are not generalized or made formal until later grades. Later, students learn to determine domains to which an argument applies. Students at all grades can listen or read the arguments of others, decide whether they make sense, and ask useful questions to clarify or improve the arguments.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch.4, 5, 6, 9,11

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Collaborative study teams is an idea embedded in the program. Etrdents j-stity and critique regularly and communicate their findings in various ways



Reviewed By:	
Title of Instructional Materials:	

4. Model with mathematics.

Mathematically proficient students can apply the mathematics they know to solve problems arising in everyday life, society, and the workplace. In early grades, this might be as simple as writing an addition equation to describe a situation. In middle grades, a student might apply proportional reasoning to plan a school event or analyze a problem in the community. By high school, a student might use geometry to solve a design problem or use a function to describe how one quantity of interest depends on another. Mathematically proficient students who can apply what they know are comfortable making assumptions and approximations to simplify a complicated situation, realizing that these may need revision later. They are able to identify important quantities in a practical situation and map their relationships using such tools as diagrams, two-way tables, graphs, flowcharts and formulas. They can analyze those relationships mathematically to draw conclusions. They routinely interpret their mathematical results in the context of the situation and reflect on whether the results make sense, possibly improving the model if it has not served its purpose.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch. 4, 5, 6, 9,11

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

In each Chapter strelads consider graphs, tables, functions, and worball models to make assumptions and precisitions and interpret their results



Reviewed By:	
Title of Instructional Materials:	

5. Use appropriate tools strategically.

Mathematically proficient students consider the available tools when solving a mathematical problem. These tools might include pencil and paper, concrete models, a ruler, a protractor, a calculator, a spreadsheet, a computer algebra system, a statistical package, or dynamic geometry software. Proficient students are sufficiently familiar with tools appropriate for their grade or course to make sound decisions about when each of these tools might be helpful, recognizing both the insight to be gained and their limitations. For example, mathematically proficient high school students analyze graphs of functions and solutions generated using a graphing calculator. They detect possible errors by strategically using estimation and other mathematical knowledge. When making mathematical models, they know that technology can enable them to visualize the results of varying assumptions, explore consequences, and compare predictions with data. Mathematically proficient students at various grade levels are able to identify relevant external mathematical resources, such as digital content located on a website, and use them to pose or solve problems. They are able to use technological tools to explore and deepen their understanding of concepts.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch. 4, 5, 6, 9,11

Summary/Justification/Evidence with the Collaboration teams, then the investigations, stredents use a multitude of tools, including manipulatives and cotooling graphing Calculators -

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	

6. Attend to precision.

Mathematically proficient students try to communicate precisely to others. They try to use clear definitions in discussion with others and in their own reasoning. They state the meaning of the symbols they choose, including using the equal sign consistently and appropriately. They are careful about specifying units of measure, and labeling axes to clarify the correspondence with quantities in a problem. They calculate accurately and efficiently, express numerical answers with a degree of precision appropriate for the problem context. In the elementary grades, students give carefully formulated explanations to each other. By the time they reach high school they have learned to examine claims and make explicit use of definitions.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch.4, 5,6,9,11

Summary/Justification/Evidence

In the collaborative team, students discuss reasoning, explanations, and examine each others claims, thus attending to precision on a daily basis

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	

7. Look for and make use of structure.

Mathematically proficient students look closely to discern a pattern or structure. Young students, for example, might notice that three and seven more is the same amount as seven and three more, or they may sort a collection of shapes according to how many sides the shapes have. Later, students will see 7×8 equals the well remembered $7 \times 5 + 7 \times 3$, in preparation for learning about the distributive property. In the expression $x^2 + 9x + 14$, older students can see the 14 as 2×7 and the 9 as 2 + 7. They recognize the significance of an existing line in a geometric figure and can use the strategy of drawing an auxiliary line for solving problems. They also can step back for an overview and shift perspective. They can see complicated things, such as some algebraic expressions, as single objects or as being composed of several objects. For example, they can see $5 - 3(x - y)^2$ as 5 minus a positive number times a square and use that to realize that its value cannot be more than 5 for any real numbers x and y.

Indicate the chapter(s), section(s), or page(s) reviewed.

Chi4, 5, 6, 9,11

Summary/Justification/Evidence

Then the investigations, strokents are forced to look for patterns or structure, Only then do they apply it to a standardized situation or a similar situation whattherest types of functions

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):



Reviewed By:	
Title of Instructional Materials:	

8. Look for and express regularity in repeated reasoning.

Mathematically proficient students notice if calculations are repeated, and look both for general methods and for shortcuts. Upper elementary students might notice when dividing 25 by 11 that they are repeating the same calculations over and over again, and conclude they have a repeating decimal. By paying attention to the calculation of slope as they repeatedly check whether points are on the line through (1, 2) with slope 3, middle school students might abstract the equation (y-2)/(x-1)=3. Noticing the regularity in the way terms cancel when expanding (x-1)(x+1), $(x-1)(x^2+x+1)$, and $(x-1)(x^3+x^2+x+1)$ might lead them to the general formula for the sum of a geometric series. As they work to solve a problem, mathematically proficient students maintain oversight of the process, while attending to the details. They continually evaluate the reasonableness of their intermediate results.

Indicate the chapter(s), section(s), or page(s) reviewed.

Ch.4,5,6,9,11

Portions of the mathematical practice that are missing or not well developed in the instructional materials (if any):

Summary/Justification/Evidence

Thru the "Discussion Points" and the "Methodsand Meanings" 5 todants look for regularity, is repeated reasoning to make conjectures and some more complex problems/sitrations.



Reviewed By:	

tle of Instructional Materials:

ALGEBRA II — NUMBER AND QUANTITY (N)

Perform arithmetic operations with complex numbers.	Summary and documentati met. Cite examples from th			ster, and stand	ard are
N-CN.1					
Know there is a complex number i such that $i^2 = -1$, and every complex number has the form $a + bi$ with a and b real.	Important Mathematical Ideas	1	2	3	4
	Skills and Procedures	 	2	3	4
	Mathematical Relationships	1	1 × 2	3	
	Summary / Justification / E	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Sect. 9.2.1	Portions of the domain, clu developed in the instruction			missing or no	t well
	not integral in required mainly as drill	wed activ	itres, problem	-s, and appl	Takes
	Overall Rating	{ 1	2	3	4

Reviewed By:	
Title of Instructional Materials:	

ALGEBRA II — NUMBER AND QUANTITY (N)

Perform arithmetic operations with complex numbers.	Summary and documentation met. Cite examples from the			ster, and star	ndard are
N-CN.2		_			
Use the relation $\vec{r} = -1$ and the commutative, associative, and distributive properties to add, subtract, and multiply complex numbers.	Important Mathematical Ideas	1	2	3	X 1 → 4
Note: i ^z as highest power of i.					
	Skills and Procedures	+			
		1	2	3	4
	Mathematical Relationships			<u></u>	
		1	2	3	4
	Summary / Justification / Ex	vidence n ihvosti	john and	622 liza 12	······································
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Sect 9.2,2	Portions of the domain, cludeveloped in the instruction			missing or r	not well
	Overall Rating				
		1	2	3	4

Reviewed By:		

Title	of Instru	rtional	Materials:	
	UL HUNELES		IVIALCHAIN.	

ALGEBRA II — NUMBER AND QUANTITY (N)

Use complex numbers in polynomial identities and equations.	Summary and documentat met. Cite examples from the			ster, and star	ndard are
N-CN.7 Solve quadratic equations with real coefficients that have complex solutions. Note: Polynomials with real coefficients.	Important Mathematical Ideas	1	2	3	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Skills and Procedures	1	2	3	 } 4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / E developed well To and against the		wshychm,	Collabera	かへ、
Seit 9.2.1 - 9.2.3	Portions of the domain, clu developed in the instructio			missing or r	not well
	Overall Rating	 	1 2	3	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

Reviewed By:	
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Title of Instructional Materials:	
Title of histiactional Materials.	

ALGEBRA II - NUMBER AND QUANTITY (N)

Use complex numbers in polynomial identities and equations.	Summary and documentation of how the domain, cluster, and standard a met. Cite examples from the materials.				
N-CN.8 (+) Extend polynomial identities to the complex numbers. For example, rewrite $x^2 + 4$ as $(x + 2i)(x - 2i)$. Note: Polynomials with real coefficients.	Important Mathematical Ideas 1 2 3 4				
	Skills and Procedures 1 2 3 4				
	Mathematical Relationships 1 2 3 4				
	Summary / Justification / Evidence				
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
Sect 9,3,2 + supplement book	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): Pot well developed in the land of t				

Reviewed By:	
Title of Instructional Materials.	

ALGEBRA II - NUMBER AND QUANTITY (N)

Use complex numbers in polynomial identities and equations.	Summary and documentation of how the domain, cluster, and standard at met. Cite examples from the materials.				
N-CN.9 (+) Know the Fundamental Theorem of Algebra; show that it is true for quadratic polynomials.	Important Mathematical Ideas	1	2	3	4
Note: Polynomials with real coefficients.	Skills and Procedures	1	2	3	4
	Mathematical Relationships	1	2	3	4
	Summary / Justification / Ev	vidence			
Indicate the chapter(s), section(s), and/or page(s) reviewed.					
In supplement only, no mention in text	Portions of the domain, cludeveloped in the instruction not developed section in supply	nal material	s (if anv):		
	Overall Rating	1	2	3	

Reviewed By:	
Keviewed By:	

Title of Instructional Materials:		

Building Functions (F-BF)

Build a function that models a relationship between two quantities.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
F-BF.1b	Important Mathematical Ideas		1	1	
1. Write a function that describes a relationship between two quantities.*		1	2	3	4
b. Combine standard function types using arithmetic operations. For example, build a function that models the temperature of a cooling body by adding a constant function to a decaying exponential, and relate these functions to the model.	Skills and Procedures	(
Note: Include all types of functions studied.		1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Mathematical Relationships	4		11	\
		1	2	3	4
	Summary / Justification / Ex Becellent devoluping	vidence	The Mash)- 7m5 a	À
	real-like situations				
	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):				
	Overall Rating	4-1			
		1	2	3	4

Title of Instructional Materials:

ALGEBRA II - FUNCTIONS (F)

Building Functions (F-BF)				
Build new functions from existing functions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.			
Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, k $f(x)$, $f(kx)$, and $f(x + k)$ for specific values of k (both positive and negative); find the value of k given the graphs. Experiment with cases and illustrate an explanation of the effects on the graph using technology. <i>Include recognizing even and odd</i>	Important Mathematical Ideas 👍	1 2	3 4	
	Skills and Procedures	1 2	3 4	
	Mathematical Relationships 👍	1 2	3 4	
	Summary / Justification / Evident Ske llent development "Methods and Mesny"		m and	
Indicate the chapter(s), section(s), and/or page(s) reviewed.	"Methods and Meaning"	" and real-life ex	plreates	
4.1,2-4.1.3 , 4,21-4,2.4	Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any): I did not see a mention of even load			
	I did not see a	: mentron of ev	en lodd	
	Enetrons			
	Overall Rating	1 2	3 4	
		1 2	3 4	

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Title of Instructional Materials:	

Building Functions (F-BF)

Build new functions from existing functions.	Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.				
F-BF.4a 4. Find inverse functions.	Important Mathematical Ideas	1	2	3	4
a. Solve an equation of the form $f(x) = c$ for a simple function f that has an inverse and write an expression for the inverse. For example, $f(x) = 2x^3$ or $f(x) = (x+1)/(x-1)$ for $x \ne 1$.	Skills and Procedures	. 1	ı	ı	Vol.
Note: Include simple radical, rational, and exponential functions; emphasize common effect of each transformation across function types.		1	2	3	4
	Mathematical Relationships	1	2	3	4
Indicate the chapter(s), section(s), and/or page(s) reviewed.	Summary / Justification / Ex		-Aid		
6.1.1 - 6.1.3	Portions of the domain, cluded developed in the instruction			missing or n	ot well
	Overall Rating	(1	2	3	→ } + 4

Title of Instructional Materials:

ALGEBRA II - FUNCTIONS (F)

Linear, Quadratic, and Exponential Models (F-LE)

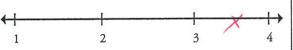
Construct and compare linear, quadratic, and exponential models and solve problems.

Summary and documentation of how the domain, cluster, and standard are met. Cite examples from the materials.

F-LE.4

For exponential models, express as a logarithm the solution to $ab^{ct} = d$ where a, c, and d are numbers and the base b is 2, 10, or e; evaluate the logarithm using technology.*

Important Mathematical Ideas



Note: Logarithms as solutions for exponentials.

Skills and Procedures



Mathematical Relationships



Summary / Justification / Evidence

Indicate the chapter(s), section(s), and/or page(s) reviewed.

7,2,1,7,2,3-7,2,4,12,5,2

Portions of the domain, cluster, and standard that are missing or not well developed in the instructional materials (if any):

a little light on the base e

